



U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
22064-69748

SERIAL NO.
10/658,667

APPLICANT
Gary A. Koppel

FILING DATE
September 9, 2003

GROUP
1614

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
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FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
CR	AL	WO 98/53812	Dec. 3, 1998	PCT			
CR	AM	WO 98/47906	Oct. 29, 1998	PCT			
CR	AN	WO 98/45256	Oct. 15, 1998	PCT			
CR	AO	WO 99/33847	July 8, 1999	PCT			
CR	AP	WO 98/13046	Apr. 2, 1998	PCT			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

CR	AR	Zhang, W. et al., "The GCP II (NAALADase) Inhibitor GPI 5693 Prevents the Nerve Conductions Velocity Deficit and Morphological Changes Associated with Diabetes in the Type 1 Diabetic BB/WOR Rat," Society For Neuroscience 2001, 31 st Annual Meeting in San Diego, CA (Nov. 10 th -15 th , 2001)
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Examiner

Date Considered 7/5/07

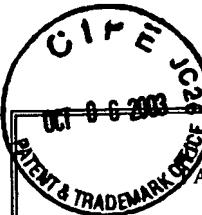
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FOREIGN PATENT DOCUMENTS							
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GR	BL	WO 98/13044	Apr. 2, 1998	PCT			
✓ Cn	BM	WO 97/48400	Dec. 24, 1997	PCT			
	BN	WO 97/10247	Mar. 20, 1997	PCT			
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
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U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
CP	AA	4,268,503	May 19, 1981	Imanaka et al.			
	AB	4,302,447	Nov. 24, 1981	Horrobin			
	AC	4,594,247	Jun. 10, 1986	Brier			
	AD	5,763,603	Jun. 9, 1998	Trickes			
	AE	5,795,877	Aug. 18, 1998	Jackson et al.			
	AF	5,824,662	Oct. 20, 1998	Slusher et al.			
	AG	5,863,536	Jan. 26, 1999	Jackson et al.			
	AH	5,880,112	Mar. 9, 1999	Jackson et al.			
↓	AI	5,905,076	May 18, 1999	Singh et al.			
	AJ	5,912,242	Jun. 15, 1999	Pevarello et al.			
Ca	AK	5,968,915	Oct. 19, 1999	Jackson, et al.			

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
duplicate	AL	WO 95/20980	Aug. 10, 1995	PCT			
	AM	WO 97/10247	Mar. 20, 1997	PCT			
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ca	AO	WO 97/35839	Oct. 2, 1997	PCT			
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ca	AR	K.C. Montgomery, "The Relation Between Fear Induced by Novel Stimulation and Exploratory Behavior," <i>J. Comp. Physiol. Psychol.</i> , vol. 48, 254-60 (1955).
!	AS	H.V. Duijn, P.A. Schwartzkroin, and D.A. Prince, "Action of Penicillin on Inhibitory Processes in the Cat's Cortex," <i>Brain Res.</i> , vol. 53, 470-476 (1973).
	AT	H. Meyer and D. Prince, "Convulsant Actions of Penicillin: Effects on Inhibitory Mechanisms," <i>Brain Res.</i> , vol. 53, 477-482 (1973).
	AU	B. Hochner, M.E. Spira, and R. Werman, "Penicillin Decreases Chloride Conductance in Crustacean Muscle: A Model for the Epileptic Neuron," <i>Brain Res.</i> , vol. 107, 85-103 (1976).
	AV	A.B. Chernomordik, "Methods of Therapeutic Application of Massive Doses of Penicillin," <i>Klin. Med.</i> , vol. 2, 102-105 (1980).
	AW	Pickles et al., "Antagonism by Penicillin of Gamma-Aminobutyric Acid Depolarizations at Presynaptic Sites in Rat Olfactory Cortex and Cuneate Nucleus <i>In Vitro</i> ," <i>Neuropharmacology</i> , vol. 19, 35-38 (1980).
	AX	D.J. Sanger, "GABA and the Behavioral Effects of Anxiolytic Drugs," <i>Life Sciences</i> , vol. 36, 1503-1513 (1985).
	AY	P. Chow and D. Mathers, "Convulsant Doses of Penicillin Shorten the Lifetime of GABA-Induced Channels in Cultured Central Neurones," <i>Br. J. Pharmac.</i> , vol. 88, 541-547 (1986)
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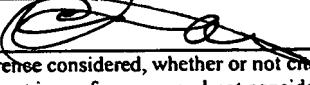
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<i>Cr</i>	BA	5,977,090	Nov. 2, 1999	Slusher et al.			
	BB	6,004,946	Dec. 21, 1999	Slusher et al.			
	BC	6,015,809	Jan. 18, 2000	Zhu et al.			
	BD	6,017,903	Jan. 25, 2000	Slusher et al.			
	BE	6,204,260 B1	Mar. 20, 2001	Bruns, Jr. et al.			
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	BG	2002/0028761 A1	Mar. 7, 2002	Koppel et al.			
<i>Ks</i>	BH	2002/0049187 A1	Apr. 25, 2002	Bruns, Jr. et al.			
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		Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>Cr</i>	BL	WO 99/36403	July 22, 1999	PCT			
<i>Cr</i>	BM	WO 00/62067	Oct. 19, 2000	PCT			
	BN						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Cr</i>	BR	V. Serval et al., "Competitive Inhibition of N-Acetylated-alpha-Linked Acidic Dipeptidase Activity by N-Acetyl-L-Aspartyl-beta-Linked L-Glutamate," <i>J. Neurochemistry</i> , vol. 55, 39-46 (1990).
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	BV	O. Orwar et al., "Increased Intra- and Extracellular Concentrations of γ -Glutamylglutamate and Related Dipeptides in the Ischemic Rat Striatum: Involvement of γ -Glutamyl Transpeptidase," <i>J. Neurochemistry</i> , vol. 63, 1371-1376 (1994).
	BW	V. Varga et al., "Endogenous γ -L-Glutamyl and β -L-Aspartyl Peptides and Excitatory Aminoacidergic Neurotransmission in the Brain," <i>Neuropeptides</i> , vol. 27, 19-26 (1994).
	BX	A.V. Kalueff, G.E. Samonina, and I.P. Ashmarin, "Penicillins and Their Derivatives: Antiulcer/Antistress Properties?" <i>Neuropsychopharmacology</i> , vol. 10 (35), 272S (1994).
<i>Cr</i>	BY	A.V. Kaluev, G.E. Samonina, and I.P. Ashmarin, "Behavioral Effects of Penicillin in a Test for Anxiety in Rats," <i>Bulletin of Experimental Biology and Medicine</i> , vol. 120 (10), 984-986 (1995).
<i>Cr</i>	BZ	P.F. Jackson et al., "Design, Synthesis, and Biological Activity of a Potent Inhibitor of the Neuropeptidase N-Acetylated α -Linked Acidic Dipeptidase," <i>J. Med. Chem.</i> , vol. 39(2), 619-622 (1996).

Examiner  Date Considered *7/5/01*

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Sheet 3 of 4

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	CA						
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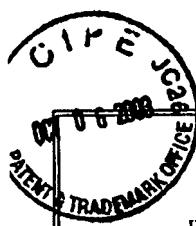
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CR	A. Ungerer et al., "γ-L-Glutamyl-L-Aspartate Induces Specific Deficits in Long-Term Memory and Inhibits [³ H]Glutamate Binding on Hippocampal Membranes," <i>Brain Res.</i> , vol. 446, 205-211 (1988).
CS	Drummond, J. et al., "Synthesis of a Cognition Enhancing Beta-Lactam Fused Gamma-Lactam", <i>Tetrahedron Lett.</i> , 28(44):5245-8 (1987).
CT	Kabanov, A. et al., "The neuroleptic activity of haloperidol increases after its solubilization in surfactant micelles," <i>FEBS Letters</i> 07908, 258(2):343-5 (1989).
CU	Nilsson, B. et al., "β-Lactam Analogues of Oxotremorine 3- and 4-Methyl-Substituted 2-Azetidinones," <i>J. Med. Chem.</i> , 33:580-84 (1990).
CV	E.F. Reynolds, "Martindale, The Extra Pharmacopoeia Clavulanic Acid," <i>Royal Pharmaceutical Society, London</i> , 211 (1996) XP-002161510.
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CX	Macknin, M.L., "Behavioral changes after amoxicillin-clavulanate," letter, <i>Pediatric Infectious Disease Journal</i> , Vol. 6, No. 9, 873-74 (1987) XP-000987254.
CY	Tsai, Guochuan et al., "Abnormal Excitatory Neurotransmitter Metabolism in Schizophrenic Brains," <i>Archives of General Psychiatry</i> , Vol. 52, No. 10, pages 829-636 (1995) XP-00987256.
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Examiner	Date Considered
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FOREIGN PATENT DOCUMENTS

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	DM						
	DN						
	DO						
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Cr</i>	DR	Kalueff, A.V., "Positive effects f penicillin-related drugs in stress and anxiety," Derwent Drug File Abstracts Online (STN-DRUGU), abstract no. 1996-33680 (1995).
<i>Vc</i>	DS	Iwamoto et al., "N-(2-Azetidinone-4-carbonyl)histidine derivative," English abstract from Japanese Patent JP360193982A from JPO database (1985).
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